

EAST Search History**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|---------------------|
| L1 | 351 | non adj destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:53 |
| L2 | 7 | L1 and(acquiring or obtaining or generating)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:54 |
| L3 | 1 | L1 and(acquiring or obtaining or generating)and radiographic adj image\$1 and digital adj image | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:55 |
| L4 | 1 | L1 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:56 |
| L5 | 8761 | nuclear adj fuel and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:57 |
| L6 | 6 | L5 and(acquiring or obtaining or generating)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:58 |
| L7 | 1 | L6 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:58 |

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|-----|--------|--|---|----|----|---------------------|
| L8 | :5 | L6 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:59 |
| L9 | :0 | L8 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:00 |
| L10 | :4 | L5 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:00 |
| L11 | :3 | L10 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:00 |
| L16 | 3198 | welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:03 |
| L17 | 436334 | (nuclear adj fuel or rods)and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:03 |
| L18 | :75 | L17 and non-destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:04 |
| L19 | :1 | L18 and(acquiring or obtaining or generating)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:05 |
| L20 | :1 | L18 and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:05 |

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| L21 | 1 | L18 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:06 |
| L22 | 0 | testing and nuclear adj fuel and rod adj assemblies and pressurised and water adj "reactors." | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:07 |
| L23 | 36 | testing and nuclear adj fuel and rod adj assemblies and pressurised and water adj reactors | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:07 |
| L24 | 2 | L23 and(acquiring or obtaining or generating)and(radiographic adj image\$1 or X-ray or beam) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:08 |
| L25 | 0 | L24 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:08 |
| L26 | 1 | L23 and(acquiring or obtaining or generating)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:09 |
| L27 | 1 | L23 and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:09 |
| L28 | 1 | L23 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:09 |
| L29 | 29 | L23 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:10 |

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| L30 | 0 | L29 and(acquiring or obtaining or generating)and(radiographic adj image\$1 or X-ray or beam) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:15 |
| L31 | 4 | L29 and(acquiring or obtaining or generating)and(radiographic adj image\$1 or X-ray or beam or source) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:15 |
| L32 | 0 | L31 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:15 |
| L33 | 0 | L31 and(comparision or match\$3)adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:15 |
| L34 | 10 | L23 and(radiographic adj image\$1 or X-ray or beam) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:20 |
| L35 | 6 | L34 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:20 |
| L36 | 0 | L35 and(comparision or match\$3)and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:20 |
| L37 | 0 | L35 and(comparision or match\$3)and image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:20 |
| L38 | 0 | L35 and(comparision or match\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:21 |

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|-----|-----|--|---|----|----|------------------|
| L39 | 1 | quality and weld adj beads and sealing adj spot and welds and digital and radiographic adj image and areas adj rods and inspection | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:25 |
| L40 | 1 | weld adj beads and sealing adj spot and digital and radiographic adj image and areas adj rods and inspection | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:25 |
| L41 | 1 | weld adj beads and sealing adj spot and radiographic adj image and areas adj rods and inspection | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:26 |
| L42 | 1 | weld adj beads and sealing adj spot and inspection | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:26 |
| L43 | 808 | (weld or sealing)adj inspection | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:26 |
| L44 | 224 | L43 and (acquiring or obtaining or generating) and (radiographic adj image\$1 or X-ray or beam) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:27 |
| L45 | 5 | L43 and (acquiring or obtaining or generating) and (radiographic adj image\$1 or X-ray or beam) and digital adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:27 |
| L46 | 3 | L45 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:27 |
| L47 | 0 | L46 and (comparision or match\$3) and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:28 |

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| L48 | 1 | L46 and(comparision or match\$3)and image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:28 |
| L49 | 0 | L48 and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:31 |
| L50 | 0 | L48 and test\$3 and (nuclear adj reactor or reactor) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:31 |
| L51 | 0 | L48 and test\$3 and (nuclear adj reactor or reactor or nuclear) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:32 |
| L52 | 0 | L48 and nuclear adj fuel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:33 |
| L53 | 6 | L2 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:41 |
| L54 | 2 | L53 and(comparision or match\$3)and image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 15:45 |
| S1 | 337 | non-destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:38 |
| S2 | 2 | non-destructive and test\$3 and nuclear adj reactor and radiographic and digital adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:39 |

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| S3 | 10 | non-destructive and test\$3 and nuclear adj reactor and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:43 |
| S4 | 9 | S3 and(@ad<"20031124" or @lad<"20031124" or @prad<"20031124" or @ptad<"20031124") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:49 |
| S5 | 9 | S3 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:50 |
| S6 | 0 | (test\$3 or inspect\$3 or examining)and(defect or flaw or fault)and welding adj joints and radiographic and digital adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:56 |
| S7 | 286 | (test\$3 or inspect\$3 or examining)and(defect or flaw or fault)and radiographic and digital adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:57 |
| S8 | 375 | (test\$3 or inspect\$3 or examining)and(defect\$3 or determining)and(defect or flaw or fault) and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:58 |
| S9 | 307 | S8 and(@ad<"20031124" or @lad<"20031124" or @prad<"20031124" or @ptad<"20031124") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:58 |
| S10 | 257 | S8 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 13:59 |
| S11 | 75 | S10 and(comparision or match\$3)and(stored or memory) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:00 |

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| S12 | 0 | S11 and assisting and rotating adj object and record\$3 adj image\$1 and digital adj mapp and welded adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:06 |
| S13 | 0 | S10 and assisting and rotating adj object and record\$3 adj image\$1 and digital adj mapp and welded adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:06 |
| S14 | 375 | (test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault) and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:10 |
| S15 | 0 | S14 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault)and radiographic adj image\$1 and welding adj joints and tubing | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:12 |
| S16 | 1 | S14 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault)and radiographic adj image\$1 and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:20 |
| S17 | 106 | (test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:21 |
| S18 | 1 | S17 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:22 |
| S19 | 106 | (test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:29 |
| S20 | 0 | S19 and nuclear adj fuel and rods | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:30 |

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| S21 | 348 | non adj destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:33 |
| S22 | 1 | S21 and(acquiring or obtaining)near2 radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:35 |
| S23 | 3 | S21 and(acquiring or obtaining)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:35 |
| S24 | 2 | S23 and @ad<20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:36 |
| S25 | 0 | S24 and(comparision or match\$3)and(stored or memory) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:36 |
| S26 | 2 | S24 and(comparision or match\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:37 |
| S27 | 0 | S26 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:37 |
| S28 | 0 | S26 and(test\$3 or inspect\$3 or examining or detect\$3 or determining)and(defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:38 |
| S29 | 0 | S26 and(test\$3 or inspect\$3 or examining or detect\$3 or determining defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:38 |

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| S30 | :2 | \$26 and(test\$3 or inspect\$3 or examining or detect\$3 or determining defect or flaw or fault) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:38 |
| S31 | :0 | \$30 and thickness adj measured | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:39 |
| S32 | :1 | \$30 and thickness and measured | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:39 |
| S33 | :0 | \$32 and porous and(areas or region) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:40 |
| S34 | :0 | \$32 and porous and(area or region) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:40 |
| S35 | :0 | \$32 and bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:41 |
| S36 | :0 | \$32 and(nuclear adj fuel or rods) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:42 |
| S37 | :0 | \$32 and(nuclear adj fuel or rod) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:42 |
| S38 | :0 | \$32 and angles | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:43 |

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| S39 | :0 | \$32 and dimension | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:44 |
| S40 | :4 | ((PHILIPPE) near2 (MAHE)).INV. | US-PGPUB; USPAT | OR | ON | 2009/04/06 14:45 |
| S41 | :1 | \$40 and(acquiring or obtaining)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:46 |
| S42 | :1 | \$41 and(comparision or match\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:47 |
| S43 | :1 | \$42 and(test\$3 or inspect\$3 or examining or detect\$3 or determining defect or flaw or fault) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:47 |
| S44 | :0 | S43 and(@ad<"20031124" or @lad<"20031124" or @prad<"20031124" or @ptad<"20031124") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:47 |
| S45 | :0 | S43 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:48 |
| S46 | :6 | ((("6154561") or ("2001055415") or ("5999636).pn.)).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 14:49 |
| S47 | :0 | \$46 and(acquiring or obtaining)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:49 |

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| S48 | 6 | S46 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 14:51 |
| S49 | 337 | non-destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:28 |
| S50 | 98 | ((("20070248239") or ("5411340") or ("5510910") or ("5883632") or ("6128022") or ("5946426") or ("4975738") or ("4995061") or ("4999716") or ("5028935") or ("5224179") or ("5283684") or ("5305521") or ("5347600") or ("5361098") or ("5430878") or ("5434956") or ("5450533") or ("5467135") or ("5489782") or ("5528493") or ("5561449") or ("5570433") or ("5594815") or ("5600407") or ("5673207") or ("5714989") or ("5729008") or ("5754704") or ("5847711") or ("5852671") or ("5995661") or ("6002782") or ("6260764") or ("6299062") or ("6361714") or ("6438168") or ("6438251") or ("6441922") or ("6529630") or ("6539127") or ("6683974") or ("6690485") or ("6724921") or ("6731756") or ("6835110") or ("6934405") or ("7034820") or ("7061030") or ("70611564).pn.").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/04/06 15:31 |
| S51 | 96 | S50 and(@ad<"20031124" or @lad<"20031124" or @prad<"20031124" or @ptad<"20031124") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:32 |
| S52 | 0 | S51 and non-destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:32 |
| S53 | 0 | S51 and(acquiring or obtaining)near2 radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:33 |
| S54 | 0 | S51 and(acquiring or obtaining)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:33 |
| S55 | 0 | S51 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:34 |

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|-----|---|--|---|----|----|---------------------|
| S56 | 0 | S51 and nuclear adj fuel and rods | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:34 |
| S57 | 0 | S51 and nuclear adj fuel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:35 |
| S58 | 2 | S51 and nuclear | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:35 |
| S59 | 2 | S58 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:35 |
| S60 | 0 | S51 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault)and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:38 |
| S61 | 0 | S58 and(detect\$3 or determining)and(defect or flaw or fault)and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:38 |
| S62 | 1 | S58 and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:38 |
| S63 | 4 | S51 and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:38 |
| S64 | 1 | S63 and(detect\$3 or determining)and(defect or flaw or fault)and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:39 |

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|-----|------|---------------------------------------|---|----|----|---------------------|
| S65 | 1 | S64 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:39 |
| S66 | 0 | S63 and comparision or match\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:43 |
| S67 | 1 | S63 and thickness and measured | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:44 |
| S68 | 0 | S67 and non-destructive | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:44 |
| S69 | 0 | S67 and bead and angles and dimension | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:46 |
| S70 | 0 | S67 and angles and dimension | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:46 |
| S71 | 0 | S67 and dimension | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:46 |
| S72 | 8587 | nuclear adj fuel and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:56 |
| S73 | 0 | S72 and longituduinal | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:57 |

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|-----|------|-----------------------------------|---|----|----|---------------------|
| S74 | 1712 | S72 and longitudinal | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:57 |
| S75 | 584 | S72 and longitudinal adj axis | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:57 |
| S76 | 48 | S75 and sheath | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:57 |
| S77 | 17 | S76 and sealed and top and bottom | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 15:58 |
| S78 | 8816 | S77 aqnd weld adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:03 |
| S79 | 1 | S77 and weld adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:04 |
| S80 | 0 | S79 and @ad< "20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:04 |
| S81 | 11 | S77 and @ad< "20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:04 |
| S82 | 0 | S81 and weld adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:05 |

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|-----|------|--|---|----|----|---------------------|
| S83 | 2321 | 382/100,249,118.ccls. | USPAT | OR | ON | 2009/04/06 16:06 |
| S84 | 8780 | 382/100,249,118,232,248,249,276,286,291,154,181,190,195,203.ccls. | USPAT | OR | ON | 2009/04/06 16:08 |
| S85 | 0 | S84 and nuclear adj fuel and assembly | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:09 |
| S86 | 3 | S84 and(acquiring or obtaining)near2 radiographic adj image\$1 | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:10 |
| S87 | 21 | S84 and(acquiring or obtaining)and radiographic adj image\$1 | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:10 |
| S88 | 0 | S87 and nuclear adj fuel | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:10 |
| S89 | 0 | S87 and(detect\$3 or determining)and(defect or flaw or fault)and joints | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:11 |
| S90 | 8821 | S87 aqnd weld adj bead | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:12 |
| S91 | 0 | S87 and weld adj bead | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:12 |
| S92 | 0 | S87 and(test\$3 or inspect\$3 or examining)and(defect\$3 or determining)and(defect or flaw or fault)and welding adj joints | US_PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:13 |

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| S93 | 0 | S87 and (detect\$3 or determining) and (defect or flaw or fault) and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:13 |
| S94 | 17 | S87 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:13 |
| S95 | 0 | S94 and weld adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:49 |
| S96 | 6 | S94 and angles and dimension | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:50 |
| S97 | 1 | S96 and thickness and measured | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:51 |
| S98 | 0 | S97 and porous and (areas or region) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:53 |
| S99 | 0 | S97 and porous | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:53 |
| S100 | 0 | S97 and nuclear adj fuel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 16:54 |
| S101 | 7815 | 358/1.9,1.1,500,501,502,518,520,1.18.ccls. | USPAT | OR | ON | 2009/04/06 17:01 |
| S102 | 1 | S101 and (acquiring or obtaining) near 2 radiographic adj image\$1 | USPAT | OR | ON | 2009/04/06 17:02 |

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|------|-----|--|---|----|----|---------------------|
| S103 | 1 | S102 and @ad<"20031124" | USPAT | OR | ON | 2009/04/06 17:03 |
| S104 | 0 | (non-destructive and test\$3 and nuclear adj reactor and acquiring and reference adj image and processed and unprocessed and detect adj defects).clm. | US-PGPUB | OR | ON | 2009/04/06 17:06 |
| S105 | 1 | (non-destructive and testing and nuclear adj reactor and acquiring radiographic adj image and reference adj image and processed and unprocessed and detect adj defects).clm. | US-PGPUB | OR | ON | 2009/04/06 17:07 |
| S106 | 677 | (non-destructive or non adj destructive)and surface adj defects | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:27 |
| S107 | 2 | S106 and(acquiring or obtaining)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:28 |
| S108 | 2 | S107 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:28 |
| S109 | 0 | S108 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:28 |
| S110 | 2 | S108 and(test\$3 or inspect\$3 or examining)and(detect\$3 or determining)and(defect or flaw or fault) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:29 |
| S111 | 0 | S110 and weld adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:29 |
| S112 | 0 | S110 and angles and dimension | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:29 |

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|------|-------|--|---|----|----|---------------------|
| S113 | 0 | S110 and thickness and measured | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/06 17:29 |
| S114 | 18896 | "378"/\$.ccls. | USPAT | OR | ON | 2009/04/06 17:31 |
| S115 | 4 | S114 and (non-destructive or non adj destructive) and surface adj defects | USPAT | OR | ON | 2009/04/06 17:31 |
| S116 | 1 | S115 and (acquiring or obtaining) and radiographic adj image\$1 | USPAT | OR | ON | 2009/04/06 17:32 |
| S117 | 87931 | "250"/\$.ccls. | USPAT | OR | ON | 2009/04/06 17:32 |
| S118 | 88 | S117 and (non-destructive or non adj destructive) and surface adj defects | USPAT | OR | ON | 2009/04/06 17:32 |
| S119 | 1 | S118 and (acquiring or obtaining) and radiographic adj image\$1 | USPAT | OR | ON | 2009/04/06 17:32 |
| S120 | 1 | S119 and @ad<"20031124" | USPAT | OR | ON | 2009/04/06 17:33 |
| S121 | 544 | (defect or flaw or fault) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/08 23:45 |
| S122 | 2 | S121 and non-destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/08 23:46 |
| S123 | 2 | S122 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/08 23:46 |
| S124 | 0 | S123 and (acquiring or obtaining) and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/08 23:50 |
| S125 | 0 | S123 and (acquiring or obtaining) and (radiographic adj image\$1 or Xrays or X-rays) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/08 23:51 |

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|------|--------|---|---|----|----|---------------------|
| S126 | 0 | S123 and(acquiring or obtaining)and image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/08 23:51 |
| S127 | 2 | S123 and welding | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:00 |
| S128 | 1 | weld adj beads and sealing adj spot adj welds and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:18 |
| S129 | 2 | spot adj welds and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:18 |
| S130 | 4 | weld adj beads and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:19 |
| S131 | 2 | S130 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:19 |
| S132 | 422935 | (nuclear adj fuel or rods)and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:39 |
| S133 | 75 | S132 and non-destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:39 |
| S134 | 65 | S133 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:39 |

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|------|----|--|---|----|----|---------------------|
| S135 | 0 | S134 and(acquiring or obtaining) and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:39 |
| S136 | 0 | S134 and(defect or flaw or fault) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:46 |
| S137 | 33 | S134 and(defect or flaw or fault) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:46 |
| S138 | 0 | S137 and weld adj beads and sealing adj spot adj welds and(defect or flaw or fault) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:48 |
| S139 | 1 | (nuclear adj fuel or rods)and weld adj beads and sealing adj spot adj welds and(defect or flaw or fault)and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:48 |
| S140 | 1 | nuclear adj fuel and weld adj beads and sealing adj spot adj welds and(defect or flaw or fault)and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:49 |
| S141 | 11 | S132 and tubular adj sheath and pellets and nuclear adj fuel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:51 |
| S142 | 0 | S141 and(defect or flaw or fault) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:52 |
| S143 | 3 | S141 and(defect or flaw or fault) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:58 |

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|------|---|---|---|----|----|---------------------|
| S144 | 1 | S143 and @ad< "20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 00:59 |
| S145 | 0 | S144 and(acquiring or obtaining)and image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:01 |
| S146 | 0 | S144 and image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:01 |
| S147 | 1 | S143 and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:02 |
| S148 | 1 | S147 and (reference adj image\$1 or template) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:03 |
| S149 | 1 | S148 and digital adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:03 |
| S150 | 1 | S149 and(processed or unprocessed) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:04 |
| S151 | 1 | S150 and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:05 |
| S152 | 1 | S151 and porosity | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:05 |

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| S153 | 1 | S152 and penetration | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:06 |
| S154 | 1 | S153 and subset | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:06 |
| S155 | 1 | S154 and convolver | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:06 |
| S156 | 0 | S155 and segmentat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:07 |
| S157 | 1 | S155 and smoothing | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:07 |
| S158 | 0 | S157 and calculat\$3 adj differenc | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:08 |
| S159 | 0 | S157 and differenc | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:08 |
| S160 | 0 | S157 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:08 |
| S161 | 1 | S143 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 01:10 |

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| S162 | 423141 | (nuclear adj fuel or rods)and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S163 | 11 | S162 and tubular adj sheath and pellets and nuclear adj fuel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S164 | 3 | S163 and(defect or flaw or fault) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S165 | 1 | S164 and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S166 | 1 | S165 and (reference adj image\$1 or template) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S167 | 1 | S166 and digital adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S168 | 1 | S167 and(processed or unprocessed) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S169 | 1 | S168 and shape | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S170 | 1 | S169 and porosity | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |

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| S171 | 1 | S170 and penetration | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S172 | 1 | S171 and subset | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S173 | 1 | S172 and convolver | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S174 | 1 | S173 and smoothing | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:47 |
| S175 | 423141 | (nuclear adj fuel or rods)and assembly | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 11:49 |
| S176 | 39638 | S175 and(processed or unprocessed) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:01 |
| S177 | 2 | S176 and tubular adj sheath and pellets and nuclear adj fuel | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:01 |
| S178 | 3344 | S176 and porosity | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:03 |
| S179 | 1187 | S178 and penetration | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:03 |

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| S180 | 7 | S179 and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:03 |
| S181 | 2 | S180 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:04 |
| S182 | 330 | S179 and weld adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:07 |
| S183 | 1 | S179 and weld adj bead same substep and opening adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:07 |
| S184 | 1 | S179 and weld adj bead and substep and opening adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:07 |
| S185 | 1 | S179 and weld adj bead and opening adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:08 |
| S186 | 0 | S182 and segmentat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:08 |
| S187 | 1063 | S175 and segmentat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:09 |
| S188 | 0 | S175 and segmentat\$3 and pixel\$2 and whole adj number | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:09 |

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| S189 | 248 | S175 and segmentat\$3 and pixel\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:09 |
| S190 | 104 | S189 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:10 |
| S191 | 1 | S190 and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 12:10 |
| S192 | 0 | S190 and(defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:08 |
| S193 | 547 | (defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:08 |
| S194 | 2 | S193 and non-destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:09 |
| S195 | 0 | S194 and segmentat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:09 |
| S196 | 0 | S193 and segmentat\$3 and pixel\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:09 |
| S197 | 0 | S193 and segmentat\$3 adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:10 |

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| S198 | 0 | S193 and radiographic adj image\$1 and segmentat\$3 adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:11 |
| S199 | 1 | S193 and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:11 |
| S200 | 51 | radiographic adj image\$1 and segmentat\$3 adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:12 |
| S201 | 31 | S200 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:12 |
| S202 | 0 | S201 and(defect or flaw or fault)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:12 |
| S203 | 0 | S201 and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:13 |
| S204 | 0 | S201 and convolver | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:13 |
| S205 | 9 | S201 and smoothing | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:13 |
| S206 | 9 | S205 and(processed or unprocessed) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:14 |

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|------|------|--|---|----|----|---------------------|
| S207 | 0 | S201 and (test\$3 or inspect\$3 or examining) and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:20 |
| S208 | 9221 | (test\$3 or inspect\$3 or examining) and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:21 |
| S209 | 7 | S208 and (acquiring or obtaining) and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:22 |
| S210 | 4 | S209 and @ad< "20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:22 |
| S211 | 1 | S210 and defects adj welds | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:24 |
| S212 | 0 | S210 and segmentat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:25 |
| S213 | 0 | S210 and pixel\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:26 |
| S214 | 0 | digital adj map and (weld\$3 adj joint or tubing) and seal\$3 adj radioactive and image\$1 and search\$3 adj porosity and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:35 |
| S215 | 0 | (weld\$3 adj joint or tubing) and seal\$3 adj radioactive and image\$1 and search\$3 adj porosity and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:36 |

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|------|--------|--|---|----|----|---------------------|
| S216 | 0 | (weld\$3 adj joint or tubing)and seal\$3 adj radioactive and search\$3 adj porosity and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:36 |
| S217 | 0 | (weld\$3 adj joint or tubing)and search\$3 adj porosity and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:36 |
| S218 | 0 | (weld\$3 adj joint or tubing)and search\$3 adj porosity | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:36 |
| S219 | 276790 | (weld\$3 adj joint or tubing) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:37 |
| S220 | 48 | S219 and digital adj map | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:37 |
| S221 | 0 | S220 and(acquiring or obtaining)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:37 |
| S222 | 0 | S220 and search\$3 adj porosity and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:38 |
| S223 | 0 | S219 and search\$3 adj porosity and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:38 |
| S224 | 432 | S219 and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:39 |

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| S225 | 475770 | S224 and(test\$3 or inspect\$3 or examining)and nuclear and rod and defect\$3 adj welding and prous adj areas adj fuel reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:42 |
| S226 | 475770 | S224 and(test\$3 or inspect\$3 or examining)and nuclear adj rod and defect\$3 adj welding and prous adj areas adj fuel reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:42 |
| S227 | 475770 | S224 and(test\$3 or inspect\$3 or examining)and nuclear adj rod and defect\$3 adj welding and prous adj areas and fuel reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:43 |
| S228 | 0 | S224 and(test\$3 or inspect\$3 or examining)and nuclear adj rod and defect\$3 adj welding and prous adj areas and fuel adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:43 |
| S229 | 0 | S224 and(test\$3 or inspect\$3 or examining)and nuclear adj rod and defect\$3 adj welding and prous adj areas | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:43 |
| S230 | 0 | S227 and(test\$3 or inspect\$3 or examining)and nuclear adj rod and defect\$3 adj welding and prous adj areas | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:44 |
| S231 | 0 | S227 and(test\$3 or inspect\$3 or examining)and nuclear adj rod and defect\$3 and welding and prous adj areas | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:44 |
| S232 | 0 | S227 and nuclear adj rod and defect\$3 and welding and prous adj areas | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:44 |
| S233 | 4637 | (detect\$3 or determining)and weld\$3 adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:46 |

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|------|---------|---|---|----|----|---------------------|
| S234 | 108 | S233 and welding adj bead | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:46 |
| S235 | 0 | S234 and(weld\$3 adj joint or tubing)and search\$3 adj porosity | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:46 |
| S236 | 2685525 | S234 and(weld\$3 adj joint or tubing)and search\$3 and(porosity or prous)and area or region | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:47 |
| S237 | 0 | S234 and(weld\$3 adj joint or tubing)and search\$3 and(porosity or prous)and (area or region) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:47 |
| S238 | 83 | S234 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:50 |
| S239 | 0 | S238 and radiographic adj image\$1 and segmentat\$3 adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:51 |
| S240 | 0 | S238 and segmentat\$3 adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:51 |
| S241 | 0 | S238 and segmentat\$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/04/09 13:55 |
| S242 | 0 | non-destructive and nuclear adj reactor and radiographic adj (inspect\$3 or test\$3 or inspect\$3 or examining)and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:25 |

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| S243 | 0 | nuclear adj reactor and radiographic adj (inspect\$3 or test\$3 or inspect\$3 or examining) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:25 |
| S244 | 0 | nuclear adj reactor and radiographic and (inspect\$3 or test\$3 or inspect\$3 or examining) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:25 |
| S245 | 0 | reactor and radiographic and (inspect\$3 or test\$3 or inspect\$3 or examining) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:25 |
| S246 | 11 | radiographic and (inspect\$3 or test\$3 or inspect\$3 or examining) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:26 |
| S247 | 10 | S246 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:26 |
| S248 | 0 | nuclear adj reactor and radiographic adj image\$1 and digital adj image and (inspect\$3 or test\$3 or inspect\$3 or examining) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:28 |
| S249 | 48322 | nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:28 |
| S250 | 0 | S249 and radiographic and (inspect\$3 or test\$3 or inspect\$3 or examining) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:29 |
| S251 | 0 | S249 and (acquiring or obtaining or generating) and radiographic adj image\$1 and (inspect\$3 or test\$3 or inspect\$3 or examining) and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:31 |

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|------|-----|--|---|----|----|---------------------|
| S252 | 0 | S249 and(acquiring or test\$3 or inspect\$3 or examining or obtaining or generating)and radiographic adj image\$1 and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:32 |
| S253 | 2 | S249 and(acquiring or test\$3 or inspect\$3 or examining or obtaining or generating)and radiographic adj image\$1 and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:32 |
| S254 | 553 | (acquiring or test\$3 or inspect\$3 or examining or obtaining or generating)and radiographic adj image\$1 and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:33 |
| S255 | 2 | S254 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:33 |
| S256 | 0 | nuclear adj reactor and radiographic adj image\$1 and digital adj image and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:36 |
| S257 | 0 | radiographic adj image\$1 and digital adj image and welding adj joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:37 |
| S258 | 20 | (acquiring or test\$3 or inspect\$3 or examining or obtaining or generating)and radiographic adj image\$1 and digital adj image and joints adj image | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:38 |
| S259 | 0 | S258 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:38 |
| S260 | 0 | S258 and reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:38 |

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|------|-----|---|---|----|----|---------------------|
| S261 | 0 | S258 and nuclear | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:38 |
| S262 | 14 | S258 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:39 |
| S263 | 0 | S258 and nuclear adj reactor and(area or region or element)and radiographic adj image\$1 and digital adj image and joints | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:44 |
| S264 | 1 | nuclear adj reactor and(area or region or element)and radiographic adj image\$1 and digital adj image | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:44 |
| S265 | 351 | non adj destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:47 |
| S266 | 3 | S265 and(acquiring or obtaining)and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:48 |
| S267 | 2 | S266 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:48 |
| S268 | 0 | S267 and nuclear adj reactor and(area or region or element)and radiographic adj image\$1 and digital adj image | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 13:49 |
| S269 | 2 | S267 and(comparision or match\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:11 |

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|------|-----|--|---|----|----|---------------------|
| S270 | 0 | S269 and(comparision or match\$3) and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:14 |
| S271 | 0 | S269 and reference adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:14 |
| S272 | 351 | non adj destructive and test\$3 and nuclear adj reactor | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:20 |
| S273 | 3 | S272 and(acquiring or obtaining) and radiographic adj image\$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:20 |
| S274 | 2 | S273 and @ad<"20031124" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:20 |
| S275 | 2 | S274 and(comparision or match\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/10/27 14:20 |

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